Abstract of the Disclosure

Methods and systems for dynamic, distributed link table consistency management are disclosed. A method for dynamic, distributed link table consistency management includes requesting, from each link interface module

5   that maintains a link table in a distributed routing system, a link table checksum from the other link interface modules in the system. The requesting link interface module computes a checksum for its local link table and compares the computed checksum to the received checksums. In response to detecting a mismatch between the local checksum and one of the received link table

10   checksums, the link interface module requests individual entry checksums from the link interface module with which a mismatch was detected. Inconsistencies between individual entries may be automatically corrected and/or reported to an operator.